

PATENT ABSTRACTS OF JAPAN

(11)Publication number : **60-229931**
(43)Date of publication of application : **15.11.1985**

(51)Int.Cl. **C08J 3/28**
/ **C08J 3/20**

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(54) METHOD FOR IMPROVING GREEN STRENGTH OF ELASTOMER

(57)Abstract:

PURPOSE: To improve easily and efficiently green strength of an elastomer, by irradiating a diene based rubber with ionizing radiation, and adding and incorporating the resultant partially crosslinked diene based rubber with an unirradiated butyl based rubber.

CONSTITUTION: (A) A diene based rubber (composition), e.g. NR, IR or SBR, irradiated with ionizing radiation, e.g. electron rays, beta rays or gamma rays, at 1W10Mrad and partially crosslinked is kneaded with (B) an unirradiated butyl based rubber (composition), e.g. butyl halide, at 90/10W10/90 weight ratio by charging the component (B) first into a roll mill, and charging the component (A) therewith while making sufficient cuts to afford the aimed elastomer having improved green strength. Thus, the aimed elastomer having an optional green strength can be obtained by suitable combination of irradiation dose and mixing ratio.

LEGAL STATUS

[Date of request for examination]
[Date of sending the examiner's decision of rejection]
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
[Date of final disposal for application]
[Patent number]
[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]

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